

demonstrate a sound understanding of the nature and operation of technology systems.
demonstrate proficiency in the use of common input and output devices; solve routine hardware and software problems; and make informed choices about technology systems, resources, and services.

use technology tools and information resources to increase productivity, promote creativity, and facilitate academic learning.

use content-specific tools (e.g., software, simulation, environmental probes, graphing calculators, exploratory environments, Web tools) to support learning and research.

use technology resources to facilitate higher order and complex thinking skills, including problem solving, critical thinking, informed decision making, knowledge construction, and creativity.

collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works using productivity tools.

use technology to locate, evaluate, and collect information from a variety of sources.

use technology tools to process data and report results.

use technology in the development of strategies for solving problems in the real world.

observe and experience the use of technology in their major field of study.

use technology tools and resources for managing and communicating information (e.g., finances, schedules, addresses, purchases, correspondence).

evaluate and select new information resources and technological innovations based on their appropriateness to specific tasks.

use a variety of media and formats, including telecommunications, to collaborate, publish, and interact with peers, experts, and other audiences.

demonstrate an understanding of the legal, ethical, cultural, and societal issues related to technology.

exhibit positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

discuss diversity issues related to electronic media.

discuss the health and safety issues related to technology use.